

Amendments to the Claims

1. (original) A method for migrating one or more data files stored on a source storage device to a target storage device, comprising:

receiving from a host a data processing request specifying a data file;

examining a stub file stored on the target storage device that corresponds to the specified data file, wherein the stub file contains a pointer identifying a source data file stored on the source storage device that corresponds to the specified data file; and

copying the source data file from the source storage device to the target storage device.
2. (original) The method of claim 1, further comprising:

retrieving requested data from the copied data file; and

providing the requested data to the host.
3. (original) The method of claim 1, wherein the source data file is stored in a file volume on the source storage device.
4. (original) The method of claim 1, wherein the stub file is stored in a file volume on the target storage device.
5. (original) The method of claim 1, wherein the target storage device comprises a NAS filer.

6. (original) The method of claim 1, wherein the target storage device comprises a file server.

7. (original) The method of claim 1, wherein the data processing request is received from the host via a network.

8. (original) The method of claim 1, wherein the pointer identifies a logical location of the source data file in the source file volume.

9. (original) The method of claim 1, wherein the pointer identifies a physical location of the source data file on the source storage system.

10. (original) The method of claim 1, further comprising replacing the stub file with the copied data file.

11. (original) A method for migrating one or more data files stored on a source storage device to a target storage device, comprising:

receiving from a host a data processing request specifying a data file;

examining a stub file stored on the target storage device that corresponds to the specified data file, wherein the stub file contains a pointer identifying a source data file stored on the source storage device that corresponds to the specified data file;

determining a size of the source data file; and

copying the source data file from the source storage device to the target storage device, if the size of the source data file does not exceed a predetermined limit.

12. (original) The method of claim 11, wherein the source data file is stored in a file volume on the source storage device.

13. (original) The method of claim 11, wherein the stub file is stored in a file volume on the target storage device.

14. (original) The method of claim 11, wherein the target storage device comprises a NAS filer.

15. (original) The method of claim 11, wherein the target storage device comprises a file server.

16. (original) The method of claim 11, wherein the data processing request is received from the host via a network.

17. (original) The method of claim 11, wherein the pointer identifies a logical location of the source data file in the source file volume.

18. (original) The method of claim 11, wherein the pointer identifies a physical location of the source data file on the source storage system.

19. (original) A method for migrating one or more data files stored on a source storage device, to a target storage device, comprising:

receiving from a host a data processing request specifying a data file;

examining a stub file stored on the target storage device that corresponds to the specified data file, wherein the stub file contains a pointer identifying a source data file stored on the source storage device that corresponds to the specified data file;

retrieving requested data from the source data file; and

providing the requested data to the host.

20. (original) The method of claim 19, wherein the source data file is stored in a file volume on the source storage device.

21. (original) The method of claim 19, wherein the stub file is stored in a file volume on the target storage device.

22. (original) The method of claim 19, wherein the target storage device comprises a NAS filer.

23. (original) The method of claim 19, wherein the target storage device comprises a file server.

24. (original) The method of claim 19, wherein the data processing request is received from the host via a network.

25. (original) The method of claim 19, wherein the pointer identifies a logical location of the source data file on the source storage device.

26. (original) The method of claim 19, wherein the pointer identifies a physical location of the source data file on the source storage system.

27. (original) A method for migrating one or more data files stored on a source storage device, to a target storage device, comprising:

accessing a target file stored on the target storage device, wherein the target file is a stub file that contains a pointer identifying a source data file stored on the source storage device; and
copying the identified source data file to the target storage device.

28. (original) The method of claim 27, wherein the source data file is stored in a file volume on the source storage device.

29. (original) The method of claim 27, wherein the stub file is stored in a file volume on the target storage device.

30. (original) The method of claim 27, wherein the target storage device comprises a NAS filer.

31. (original) The method of claim 27, wherein the target storage device comprises a file server.

32. (original) The method of claim 27, wherein the pointer identifies a logical location of the source data file on the source storage device.

33. (original) The method of claim 27, wherein the pointer identifies a physical location of the source data file on the source storage system.

34. (currently amended) A system for migrating one or more data files stored on a source storage device to a target storage device, comprising:

an interface ~~for~~ configured to:

~~receiving~~ receive from a host a data processing request specifying a data file; and

a processor ~~for~~ configured to:

~~examining~~ examine a stub file stored on the target storage device that corresponds to the specified data file, wherein the stub file contains a pointer identifying a source data file stored on the source storage device that corresponds to the specified data file[[,]] ; and

~~for copying~~ copy the source data file from the source storage device to the target storage device.

35. (currently amended) The system of claim 34, wherein the processor ~~additionally~~ is further configured to:

~~retrieves~~ retrieve requested data from the copied data file, and provides the requested data to the host.

36. (original) The system of claim 34, wherein the source data file is stored in a file volume on the source storage device.

37. (original) The system of claim 34, wherein the stub file is stored in a file volume on the target storage device.

38. (original) The system of claim 34, wherein the target storage device comprises a NAS filer.

39. (original) The system of claim 34, wherein the target storage device comprises a file server.

40. (original) The system of claim 34, wherein the data processing request is received from the host via a network.

41. (original) The system of claim 34, wherein the pointer identifies a logical location of the source data file in the source file volume.

42. (original) The system of claim 34, wherein the pointer identifies a physical location of the source data file on the source storage system.

43. (currently amended) The system of claim 34, ~~further comprising~~ wherein the processor is further configured to:

~~replacing~~ replace the stub file with the copied data file.

44. (currently amended) A system for migrating one or more data files stored on a source storage device to a target storage device, comprising:

an interface ~~for~~ configured to:

~~receiving~~ receive from a host a data processing request specifying a data file; and

a processor ~~for~~ configured to:

~~examining~~ examine a stub file stored on the target storage device that corresponds to the specified data file, wherein the stub file contains a pointer identifying a source data file

stored on the source storage device that corresponds to the specified data file; wherein the processor

~~determines~~ determine a size of the source data file, and

~~copies~~ copy the source data file from the source storage device to the target storage device, if the size of the source data file does not exceed a predetermined limit.

45. (original) The system of claim 44, wherein the source data file is stored in a file volume on the source storage device.

46. (original) The system of claim 44, wherein the stub file is stored in a file volume on the target storage device.

47. (original) The system of claim 44, wherein the target storage device comprises a NAS filer.

48. (original) The system of claim 44, wherein the target storage device comprises a file server.

49. (original) The system of claim 44, wherein the data processing request is received from the host via a network.

50. (original) The system of claim 44, wherein the pointer identifies a logical location of the source data file in the source file volume.

51. (original) The system of claim 44, wherein the pointer identifies a physical location of the source data file on the source storage system.

52. (currently amended) A system for migrating one or more data files stored on a source storage device, to a target storage device, comprising:

an interface ~~for~~ configured to:

~~receiving~~ receive from a host a data processing request specifying a data file; and

a processor ~~for~~ configured to:

~~examining~~ examine a stub file stored on the target storage device that corresponds to the specified data file, wherein the stub file contains a pointer identifying a source data file stored on the source storage device that corresponds to the specified data file[[,]] ;

~~for retrieving~~ retrieve requested data from the source data file[[,]] ; and

~~for providing~~ provide the requested data to the host.

53. (original) The system of claim 52, wherein the source data file is stored in a file volume on the source storage device.

54. (original) The system of claim 52, wherein the stub file is stored in a file volume on the target storage device.

55. (original) The system of claim 52, wherein the target storage device comprises a NAS filer.

56. (original) The system of claim 52, wherein the target storage device comprises a file server.

57. (original) The system of claim 52, wherein the data processing request is received from the host via a network.

58. (original) The system of claim 52, wherein the pointer identifies a logical location of the source data file on the source storage device.

59. (original) The system of claim 52, wherein the pointer identifies a physical location of the source data file on the source storage system.

60. (currently amended) A system for migrating one or more data files stored on a source storage device, to a target storage device, comprising:

a processor ~~for~~ configured to:

~~accessing~~ access a target file stored on the target storage device, wherein the target file is a stub file that contains a pointer identifying a source data file stored on the source storage device[[,]] ; and

~~for copying~~ copy the identified source data file to the target storage device.

61. (original) The system of claim 60, wherein the source data file is stored in a file volume on the source storage device.

62. (original) The system of claim 60, wherein the stub file is stored in a file volume on the target storage device.

63. (original) The system of claim 60, wherein the target storage device comprises a NAS filer.

64. (original) The system of claim 60, wherein the target storage device comprises a file server.

65. (original) The system of claim 60, wherein the pointer identifies a logical location of the source data file on the source storage device.

66. (original) The system of claim 60, wherein the pointer identifies a physical location of the source data file on the source storage system.

67. (new) A method for migrating one or more data files stored in a source storage system to a target storage system, comprising:

storing, in a target storage system, a stub file comprising information identifying a location of a source data file stored in a source storage system;

receiving from a host a data processing request specifying the stub file;

examining the information in the stub file, in response to the request;

accessing the source data file based on the information; and

copying the accessed source data file from the source storage system to the target storage system.

68. (new) The method of claim 67, further comprising:

retrieving requested data from the copy of the accessed source data file; and

providing the requested data to the host, in response to the data processing request.

69. (new) The method of claim 67, comprising:

copying the accessed source data file from the source storage system to the target storage system, only if the size of the accessed source data file does not exceed a predetermined limit.

70. (new) The method of claim 67, further comprising:

generating in the target storage system a target file directory corresponding to a source file directory stored in the source storage system.

71. (new) The method of claim 67, further comprising:

receiving from the host, by the source storage system, via a first communication connection between the source storage system and the host, a first data processing request specifying the source data file;

disconnecting the source storage system from the host;

establishing a second communication connection between the target storage system and the host; and

receiving from the host, by the target storage system, via the second communication connection, a second data processing request specifying the stub file.

72. (new) A system for migrating one or more data files stored on a source storage system to a target storage system, comprising:

one or more storage systems configured to:

store, in a target storage system, a target data file that corresponds to a source data file stored in a source storage system;

at least one interface configured to:

receive from a host a data processing request specifying the target data file; and

at least one processor configured to:

examine information in the target data file identifying the corresponding source data file, in response to the request;

access the source data file based on the information; and

copy the accessed source data file from the source storage system to the target storage system.

73. (new) The system of claim 72, wherein the processor is further configured to:
retrieve requested data from the copy of the accessed source data file; and
provide the requested data to the host, in response to the data processing request.

74. (new) The system of claim 72, wherein the processor is configured to:
copy the accessed source data file from the source storage system to the target storage
system, if the size of the accessed source data file does not exceed a predetermined limit.

75. (new) The system of claim 72, wherein the at least one processor comprises a file
server.

76. (new) The method of claim 1, further comprising:
copying data files from the source file device to the target file device, when sufficient
processing resources are available.

77. (new) The method of claim 4, further comprising:
creating the target file volume on the target storage device;
copying information concerning rights of users to access the source file volume from the
source file volume to the target file volume; and
generating in the target storage device a target file directory corresponding to a source
file directory stored in the source storage device.

78. (new) The method of claim 11, further comprising:
retrieving requested data from the copied data file stored in the target storage device, in
accordance with the data processing request; and
providing the requested data to the host.
79. (new) The method of claim 19, further comprising:
copying the source data file from the source storage device to the target storage device.
80. (new) The method of claim 1, further comprising:
storing, on the target storage device, the stub file comprising a pointer identifying the
source data file, prior to copying the source data file from the source storage device to the target
storage device.